LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Previously Presented) A lighting apparatus using microwave energy, comprising: a casing;
- a reflector fixed to an outer surface of the casing;
- a magnetron disposed inside the casing, for generating microwave energy;
- a waveguide for guiding microwave energy;
- a resonator disposed inside the reflector and providing a resonant region in which the microwave energy is resonated;
- a bulb having a stem disposed inside the resonator, and filled with a material which emits light, when excited by the microwave energy; and
- a rear mirror integrally fixed to the bulb stem and integrally rotatable together with the bulb when the bulb is rotated, for forwardly reflecting light rearwardly emitted from the bulb.
- **2.** (Currently Amended) The apparatus of claim 1, wherein the rear mirror is formed in a hemispherical shape having a curved shape surface.
- 3. (Original) The apparatus of claim 2, wherein the bulb is positioned at a focal point of the curved surface of the rear mirror.
- 4. (Original) The apparatus of claim 1, wherein the rear mirror is made of a quartz material.

5-6. (Cancelled)

7. (Currently Amended) The apparatus of claim 51, wherein the fixed mirror is formed in a hemispherical shape having a curved shape surface.

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- **8.** (Original) The apparatus of claim 7, wherein the bulb is positioned at a focal point of the curved surface of the fixed mirror.
- 9. (Currently Amended) The apparatus of claim 51, wherein the rear mirror is formed in a hemispherical shape having a curved shape surface.
- 10. (Original) The apparatus of claim 9, wherein the bulb is positioned at a focal point of the curved surface of the rear mirror.
- 11. (Currently Amended) The apparatus of claim 51, wherein the rear mirror is made of a quartz material.
- 12. (Currently Amended) The apparatus of claim 51, wherein the fixed mirror is made of a ceramic material.
- 13. (Original) The apparatus of claim 12, wherein the fixed mirror is made of an Al₂O₃, Si₃N₄ or AlN material.
 - **14. (New)** A lighting apparatus using microwave energy, comprising: a casing;
 - a reflector fixed to an outer surface of the casing;
 - a magnetron disposed inside the casing, for generating microwave energy;
 - a waveguide for guiding microwave energy;
- a resonator disposed inside the reflector and providing a resonant region in which the microwave energy is resonated;
- a bulb having a stem disposed inside the resonator, and filled with a material which emits light, when excited by the microwave energy;

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a rear mirror integrally fixed to the bulb stem and integrally rotatable together with the bulb when the bulb is rotated, for forwardly reflecting light rearwardly emitted from the bulb; and

a fixed mirror fixed to the casing at a rear side of the bulb and having a hole in which a bulb stem rearwardly extended from the bulb is rotatably insertable for forwardly reflecting light emitted to the rear of the bulb,

wherein a diameter of the hole of the fixed mirror is formed to be smaller than a width of the rear mirror.

- 15. (New) The apparatus of claim 14, wherein the fixed mirror is formed in a hemispherical shape having a curved surface.
- 16. (New) The apparatus of claim 14, wherein the rear mirror is formed in a hemispherical shape having a curved surface.
- 17. (New) The apparatus of claim 14, wherein the rear mirror is made of a quartz material.
- 18. (New) The apparatus of claim 14, wherein the fixed mirror is made of a ceramic material.
- 19. (New) The apparatus of claim 14, wherein the bulb is positioned at a focal point of the curved surface of the rear mirror.
- 20. (New) The apparatus of claim 14, wherein the fixed mirror is made of an Al₂O₃, Si₃N₄ or AlN material.

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